

**Abstract of the invention**

IP addresses are presently becoming a scarce resource, even in private IP address domains. Commonly therefore network address translators are used to map a large number of private addresses to a relatively small number of public IP address, or even map addresses between two different IP address domains. However, network address translators do not readily pass voice set-up protocols such as SIP and VoIP packets. By modifying a call server and providing an intelligent network address translator, conventional media gateways may be caused to use the intelligent address translator to route VoIP packets between IP domains having overlapping address spaces.

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